(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



A SERVE BENEFOR TO CORRESPONDED TO CORRESPONDED TO CORRESPONDED TO SERVE AND CORRESPONDED TO SERVER BENEFOR THE SERVER FOR THE

(43) International Publication Date 4 November 2004 (04.11.2004)

PCT

(10) International Publication Number WO 2004/094766 A3

(51) International Patent Classification7:

E21B 23/01

(21) International Application Number:

PCT/US2004/011973

(22) International Filing Date:

15 April 2004 (15.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/463,586

17 April 2003 (17.04.2003) US

(71) Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BRISCO, David, Paul [US/US]; 405 Westridge Drive, Duncan, OK 73533 (US). WATSON, Brock, Wayne [US/US]; 2535 Marsh Lane #1004, Carrollton, TX 75006 (US). TREECE, Harold [US/US]; 213 Ridgecrest Drive, Duncan, OK 73533 (US).

(74) Agent: MATTINGLY, Todd: Haynes and Boone, LLP, 901 Main Street, Suite 3100, Dallas, TX 75202 (US).

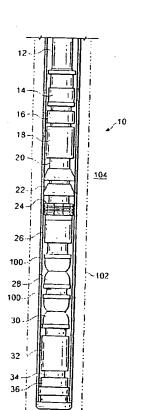
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, H, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: APPARATUS FOR RADIALLY EXPANDING AND PLASTICALLY DEFORMING A TUBULAR MEMBER

(57) Abstract: An apparatus for radially expanding and plastically deforming a tubular (100).



BEST AVAILABLE COPY

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/11973

A. CL.	ASSIFICATION OF SUBJECT MATTER		·
IPC(7)	: E21B 23/01		
US CL	: 166/298, 55.7		
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIE	LDS SEARCHED		
Minimum o U.S. :	documentation searched (classification system follow 166/298, 55.755, 55.6, 297; 405/184.3	ed by classification symbols)	
Documenta	tion searched other than minimum documentation to	the extent that such documents are included.	
		and show that such documents are included i	n the helds searched
Electronic d EAST	lata base consulted during the international search (n	ame of data base and, where practicable, searc	ch terms used)
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, when	e appropriate, of the relevant passages	Dolars 44 1 24
Х	US 5,306,101 A (Rockower et al.) 26 April 1994	(26.04.1994), sec entire document	Relevant to claim No
x			1, 13, 26 and 41
		1.) 4 December 2001 (04.12.2001), see entire document. 50, 59-67, 70 and	
P,X	US 6,598,678 B1 (Simpson et al.) 29 July 2003 (29.07.2003), see entire document.		1-75
Further documents are listed in the continuation of Box C. Special categories of cited documents:		See patent family annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the interna date and not in conflict with the application principle or theory underlying the invention	no hut aired asd
E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the clair considered novel or cannot be considered when the document is taken stone.	med invention cannot be
'L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance: the claimed investigation	
O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search	report
8 August 2005 (18.08.2005)		27 SEP 2005	
ame and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US		(Authorized officer	
Commissioner for Patents		David Bagneller muth for	
P.O. Box 1450		<i>1</i>	
niexa: acsimile No. (ndria, Virginia 22313-1450 703) 305-3230	Telephone No. 571-272-3600	
	10 (second short) (In and the		j

Form PCT/ISA/210 (second sheet) (January 2004)